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APPLICANT : OSAKA TOKUSHU GOKIN KK;

INVENTOR : IWATA TADAO;

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TITLE : METHOD FOR ADDING CALCIUM TO MOLTEN STEEL

ABSTRACT : PURPOSE: To prevent the emission of smoke at the time of addition of a granular or lump Ca additive and to increase the addition yield of Ca by coating the surface of the additive with refractory and/or iron powder.

CONSTITUTION: A granular or lump Ca alloy and/or Ca-contg. metal additive contg. 3-35% Ca and surface-coated with refractory and/or iron powder is added to molten steel in an RH degassing tank. MgO, Al₂O₃, SiO₂, fluorite or other metal oxide is suitable for use as the refractory and two or more kinds of such metal oxides may be used in combination. By the surface coating, the reaction of the Ca additive is retarded, the emission of white smoke at the time of addition can be very simply prevented and an yield increasing effect is produced.

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